

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors: Kazuyuki MIYA

Application No.: New PCT National Stage Application

Filed: March 12, 2002

For: CHANNEL ESTIMATING APPARATUS AND CHANNEL
ESTIMATING METHOD

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

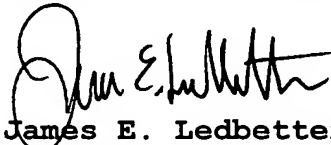
Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the references listed on the attached Form PTO 1449. All of these references were cited in a PCT International Search Report (copy attached) except for the following documents: "B-5-3", "B-5-59", B-5-123" and "S. ABETA, et al. (RCS97-163)".

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106.

Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,



James E. Ledbetter
Registration No. 28,732

Date: March 12, 2002

JEL/spp

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Kazuyuki MIYA

FILING DATE

March 12, 2002

GROUP

Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	2001 0 7 7 7 4 4	03/2001	JP			Abstract	
	2000 0 7 8 1 1 1	03/2000	JP			Abstract	
	0 6 0 3 0 0 7 0	02/1994	JP			Abstract	
	1 1 0 5 5 3 4 2	02/1999	JP			Abstract	
	2000 1 3 8 7 2 1	05/2000	JP			Abstract	
	2000 0 0 4 2 1 2	01/2000	JP			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

International Search Report dated July 31, 2000.

S. ABETA, et al.; "The Performance of Channel Estimation method using Adaptive Weighted Multi-Symbol Averaging (WMSA) with Pilot Channel in DS-CDMA", Technical Report of IEICE, SSE98-20, RCS98-20, pp. 67-74, April 1998, with English Abstract.

M. USUDA, et al.; "An Application of a demodulation scheme using parallel channel estimators in W-CDMA systems", NTT Mobile Communications Network, Inc., B-5-3. pg. 238, with partial English translation.

H. ANDOH, et al.; "Doppler frequency detection using pilot symbols", NTT Mobile Communications Network, Inc., B-5-59, pg. 444, with partial English translation.

T. NAGAYASU, et al.; "A DS-CDMA Receiver with Frequency Offset Compensation", Mitsubishi Electric Corporation, B-5-123, pg. 474, with partial English translation.

S. ABETA, et al.; "The Performance of Channel Estimation method using Weighted Multi-Symbol Averaging (WMSA) with Pilot Channel in DS-CDMA", Technical Report of IEICE, RCS97-163, November, 1997, with English Abstract.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.